

### **ABSTRACT OF THE DISCLOSURE**

A method of segmenting a radiographic image into diagnostically relevant and diagnostically irrelevant regions comprising: acquiring a digital radiographic image including a matrix of rows and columns of pixels; detecting  
5 the initial background left point of a histogram of the image; detecting the foreground of the image; regenerating the background of the image by region growing; validating the background of the image; merging the background and foreground regions of the image as diagnostically irrelevant regions; and extracting the anatomy region of the image as the diagnostically relevant region.